ಕರ್ನಾಟಕ ವಿಧಾನ ಪರಿಷತ್ತು

ಚುಕ್ಕೆ ಗುರುತಿಲ್ಲದ ಪ್ರಶ್ನೆ ಸಂಖ್ಯೆ : 1799 (1607)
ಸದಸ್ಯರ ಹೆಸರು : ಶ್ರೀ ಕೆ.ಎ. ತಿಪ್ಪೇಸ್ವಾಮಿ
(ನಾಮನಿರ್ದೇಶನ ಹೊಂದಿದವರು)
ಉತ್ತರಿಸುವವರು : ಬೃಹತ್ ಮತ್ತು ಮಧ್ಯಮ ಕೈಗಾರಿಕೆ ಸಚಿವರು
ಉತ್ತರಿಸುವ ದಿನಾಂಕ : 15.03.2022

ಸಂಖ್ಯೆ	ಪ್ರಶ್ನೆ	ಉತ್ತರ
ಅ	ರಾಜ್ಯದಲ್ಲಿ ಕೇಂದ್ರ ಸರ್ಕಾರದ ಫೇಮ್ ಇಂಡಿಯಾ ಯೋಜನೆಯ ಹಂತ-2 ರಡಿಯಲ್ಲಿ ವಿದ್ಯುತ್ ವಾಹನಗಳ ತಯಾರಿಕೆಯು ಸದ್ಯ ಯಾವ ಹಂತದಲ್ಲಿದೆ;	ಪ್ರಸ್ತುತ ಧಾರವಾಡದಲ್ಲಿರುವ ಮೆ॥ ಟಾಟಾ ಮೋಟಾರ್ಸ್ ಲಿಮಿಟೆಡ್ ರವರು ಇ.ವಿ. ವಾಹನಗಳ ದೇಶವ್ಯಾಪಿ ಇರುವ ಬೇಡಿಕೆಯಂತೆ ವಾಹನಗಳನ್ನು ತಯಾರಿಸುತ್ತಿದ್ದಾರೆ. ಇಲ್ಲಿಯವರೆಗೆ ಫೇಮ್-1 ಯೋಜನೆಯಡಿ 215 ಸಂಖ್ಯೆಯಲ್ಲಿ ವಾಹನಗಳನ್ನು ಉತ್ಪಾದನೆ ಮಾಡಿದ್ದು, ಫೇಮ್-2 ರಡಿ 500 ವಾಹನಗಳ ಉತ್ಪಾದನೆ ಪ್ರಗತಿಯಲ್ಲಿರುತ್ತದೆ.
ಆ	ರಾಜ್ಯದಲ್ಲಿ ಸದರಿ ಯೋಜನೆಯಡಿ ವಿದ್ಯುತ್ ವಾಹನಗಳನ್ನು ವಿದ್ಯುಚ್ಛಕ್ತಿಯಿಂದ ಚಾರ್ಜ್ ಮಾಡಲು ಸ್ಥಾಪಿಸಲಾದ ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರಗಳೆಷ್ಟು; (ನಗರ/ಪಟ್ಟಣ ಮತ್ತು ಹೆದ್ದಾರಿಗಳನ್ನೊಳಗೊಂಡಂತೆ ವಿವರವನ್ನು ನೀಡುವುದು)	Department of Heavy Industries, Government of India ರವರು ಫೇಮ್-2 ಯೋಜನೆಯಡಿ ರಾಜ್ಯಕ್ಕೆ 172 ಹಾಗೂ ಅದರಲ್ಲಿ ಬೆಂಗಳೂರು ನಗರಕ್ಕೆ 152, ಮಂಗಳೂರು ನಗರಕ್ಕೆ 10 ಮತ್ತು ಕಲಬುರ್ಗಿ ನಗರಕ್ಕೆ 10 ವಿದ್ಯುತ್ ವಾಹನ ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರಗಳನ್ನು ಸ್ಥಾಪಿಸಲು ಅನುಮೋದನೆ ನೀಡಿದೆ. ಸದರಿ ಇವಿ ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರಗಳನ್ನು ಸ್ಥಾಪಿಸಲು, ಎನ್‌ಟಿಪಿಸಿ ಲಿಮಿಟೆಡ್ ಮತ್ತು ರಾಜಸ್ಥಾನ ಎಲೆಕ್ಟ್ರಾನಿಕ್ಸ್ & ಇನ್ಸ್ಟ್ರುಮೆಂಟ್ಸ್ ಲಿಮಿಟೆಡ್ ಜೊತೆ ಬೆಂಗಳೂರು ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿ ನಿಯಮಿತ (BESCOM) MoU ಕಾರ್ಯಗತಗೊಳಿಸಿದೆ. ಸಧ್ಯ, ಸ್ಥಳ ಪರಿಶೀಲನೆ ಚಟುವಟಿಕೆ ಪ್ರಗತಿಯಲ್ಲಿದೆ.
ಇ	ರಾಜ್ಯ ಸರ್ಕಾರ ಇವಿ ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರಗಳ ಸ್ಥಾಪನೆಗೆ ಕೇಂದ್ರ ಸರ್ಕಾರಕ್ಕೆ ಸಲ್ಲಿಸಲಾಗಿರುವ ಇದುವರೆಗಿನ ಪ್ರಸ್ತಾವನೆಗಳ ಸಂಖ್ಯೆ ಎಷ್ಟು; ಕೇಂದ್ರ ಸರ್ಕಾರದಲ್ಲಿ ಮಂಜೂರಾತಿಗಾಗಿ ಬಾಕಿ ಉಳಿದಿರುವ ಪ್ರಸ್ತಾವನೆಗಳ ಸಂಖ್ಯೆ ಎಷ್ಟು; (ಪೂರ್ಣ ವಿವರವನ್ನು ನೀಡುವುದು)	ಭಾರತ ಸರ್ಕಾರದ ಫೇಮ್-2 ಯೋಜನೆಯಡಿ ರಾಜ್ಯದಲ್ಲಿ 678 ಕೇಂದ್ರಗಳನ್ನು ರೂ.346 ಕೋಟಿ ವೆಚ್ಚದಲ್ಲಿ ಸ್ಥಾಪಿಸಲು ಪ್ರಸ್ತಾವನೆ ಸಲ್ಲಿಸಲಾಗಿರುತ್ತದೆ. Department of Heavy Industries, Government of India ರವರು ರಾಜ್ಯಕ್ಕೆ 172 ಹಾಗೂ ಅದರಲ್ಲಿ ಬೆಂಗಳೂರು ನಗರಕ್ಕೆ 152, ಮಂಗಳೂರು ನಗರಕ್ಕೆ 10 ಮತ್ತು ಕಲಬುರ್ಗಿ ನಗರಕ್ಕೆ 10 ವಿದ್ಯುತ್ ವಾಹನ ಚಾರ್ಜಿಂಗ್ ಕೇಂದ್ರಗಳನ್ನು ಸ್ಥಾಪಿಸಲು ಅನುಮೋದನೆ ನೀಡಿರುತ್ತಾರೆ. ಬೆಂಗಳೂರು ವಿದ್ಯುತ್ ಸರಬರಾಜು ಕಂಪನಿ ನಿಯಮಿತ (BESCOM) ರವರು ಸಲ್ಲಿಸಿದ ಪ್ರಸ್ತಾವನೆಯನ್ನು ಅನುಬಂಧದಲ್ಲಿ ಒದಗಿಸಿದೆ.

ಸಿಐ 66 ಎಸ್‌ಪಿಐ 2022

(ಡಾ॥ ಮುರುಗೇಶ ಆರ್. ನಿರಾಣಿ)
ಬೃಹತ್ ಮತ್ತು ಮಧ್ಯಮ ಕೈಗಾರಿಕೆ ಸಚಿವರು

ಗೌರವ್ ಗುಪ್ತ, ಭಾ.ಆ.ಸೇ
ಸರ್ಕಾರದ ಪ್ರಧಾನ ಕಾರ್ಯದರ್ಶಿ
GAURAV GUPTA, IAS
Principal Secretary to Government

Government of Karnataka

ವಾಣಿಜ್ಯ ಮತ್ತು ಕೈಗಾರಿಕೆ ಇಲಾಖೆ.
Commerce & Industries Department

CI 86 SPI 2019 — 08.04.2019

Dear Sir,

Sub: Submission of proposal for funding through Phase-II of FAME India Scheme for Charging Infrastructure.

Ref: Your letter No. DO 1(1) 2019-AE1 dated 12.03.2019.

* * * * *

Kindly refer your ref. letter cited above, wherein it was informed that to give a further push to electric mobility in the country, the GoI has approved Phase-II of FAME India Scheme for a period of 3 years from 01.04.2019 with a total budgetary support of Rs. 10,000 crore, which will mainly focus on supporting electrification of public and shared transportation.

The Director (UMPP/EV), Ministry of Power, GoI in his letter dated 12.03.2019 requested the State Government to submit proposal for assistance for Charging Infrastructure through Phase-II of FAME India Scheme, as per the guidelines of Ministry of Power.

The Managing Director, Bangalore Electricity Supply Company Limited (BESCOM) vide letter 25.03.2019 has submitted the proposal to the State Government for recommendation to GoI for providing assistance through Phase-II of FAME India Scheme for installation of EV Charging Infrastructure in the State. The proposal of the BESCOM is enclosed for your kind reference and the brief details of the proposal are mentioned below:

Sl. No.	Implementation	No. of Charging Stations	Investment (Rs. in crore)	Location	Timeline
1	Phase-I	138	70.38	83 Public charging stations in Bengaluru, 24 Public charging stations in Bengaluru-Mysuru and Bengaluru-Chennai highways. Balance Public charging stations in Mysuru and Hubballi.	FY 2020
2	Phase-II	390	198.90	15 Public charging stations each in 26 District Headquarters of Karnataka.	FY 2021
3	Phase-III	150	76.50	All major roads / highways connecting the Cities shall be covered in this Phase.	FY 2022
	Total	678	345.78		

ಕೊಠಡಿ ಸಂ.106, 1 ನೇ ಮಹಡಿ, ವಿಕಾಸ ಸೌಧ, ಡಾ: ಬಿ.ಆರ್.ಅಂಬೇಡ್ಕರ್ ವೀಧಿ, ಬೆಂಗಳೂರು -560001.
Room No. 106, 1st Floor, Vikasa Soudha, Dr. B.R. Ambedkar Veedhi, Bengaluru - 560 001.
Email: acscikar@gmail.com | prs-ci@karnataka.gov.in | Tel: +91 80 22252443, 22034340 | Fax: +91 80 22259870

Therefore, it is requested to consider 100% of the cost for establishment of Charging Infrastructure under Phase-II of FAME INDIA Scheme for promoting electric mobility in Karnataka.

With best regards,

Yours sincerely,

Sd/-
(Gaurav Gupta)

Dr. A.R. Sihag,
Secretary,
Government of India,
Ministry of Heavy Industries & Public Enterprises,
Department of Heavy Industry,
Udyog Bhawan, New Delhi-110 011.

Copy to:

1. The Commissioner for Industrial Development and Director, Industries & Commerce Department, Khanija Bhavan, Race Course Road, Bengaluru-560 001.
2. Managing Director, BESCOM, K.R. Circle, Bengaluru-560 001.
3. P.S. to the Chief Secretary, Government of Karnataka, Bengaluru-560001.
4. O/c

(Gaurav Gupta)

9/4/19
Commerce and Industries Department
Receipts and issues section
Vikasa Soudha, Bangalore - 01

9/04/19

EV CHARGING INFRASTRUCTURE PROPOSAL FOR KARNATAKA - FAME II

Abstract

This report is a proposal for installation of EV Charging Infrastructure in the state of Karnataka under FAME Phase-2.

BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

md@bescom.co.in

Contents

1. INTRODUCTION

1.1. Electric Vehicle & Energy Storage Policy – 2017, GoK

The Government of Karnataka has issued the Karnataka Electric Vehicle and Energy Storage Policy 2017 in September 2017 with a vision to make Benguluru the Electric Vehicle Capital of India besides attracting investment to the tune of INR 31,000 crore and creating 55,000 new jobs by 2022. Some of the key objectives of the policy are summarized below:

- To maintain the lead and market share where Karnataka is the preferred destination to attract investments in EV manufacturing
- To attract investments of INR 31,000 crore and create new 55,000 new jobs by 2022
- To provide opportunities for developing research and development (R&D) facilities in electric mobility
- Create EV manufacturing zones and clusters with complete infrastructural facilities
- Three wheelers, cab aggregators, corporate fleets and school buses/vans are to be encouraged to shift to electric
- Public fleet operators will introduce 1000 EV buses during the policy period with Bangalore Metropolitan Transport Corporation (BMTC) proposed to have fleet services within city by 2018
- An emphasis on EVs has been made for goods transportation within city limits operated by logistics firms
- Battery manufacturing will be facilitated by Karnataka Udyog Mitra who will operate an online clearance system with special incentives for modular lithium ion batteries
- The policy proposes to adopt BIS standards for setting up charging infrastructure with proposal to amend any existing building bylaws to setup charging stations in public buildings
- The government will encourage industry and academia to undertake research in this space and setup charging infrastructure that adheres to ARAI/BIS standards
- A Special Purpose Vehicle (SPV) involving different government agencies in Bangalore will be mooted to setup charging infrastructure in the city

- A special tariff is likely to be proposed for EV charging in the state including proposals to permit energy resale at charging stations
- Fast charging stations and battery swapping networks at every 50 km interval to be established on prominent highways of the state starting with Bangalore-Mysore Highway
- Public bus and metro stations to have charging infrastructure
- Encourage lease/pay-per-use business models for battery swapping stations
- Promote end of life battery use for solar PV applications including a safe disposal mechanism in Public-Private Partnership model
- Invite investments in battery manufacturing in the State to the tune of 5 GWh per year, which is expected to generate a net employment of over 10,000
- Provide special incentives for skill development in battery manufacturing
- Provide Investment Promotion Subsidy (IPS) in the range of 20-25% of total fixed assets to manufacturers of EV components
- The IPS will be available over and above any subsidy offered by Government of India
- Total exemption on payment of stamp duty, concession on land registration charges, reimbursement of land conversion fee and exemption from tax on electricity tariff are other incentives proposed for manufacturers of EVs, components, batteries and charging stations
- A special package of incentives and concessions will be considered for Ultra Mega and Super Mega EV enterprises/Lithium ion battery manufacturers catering to exclusively for EV market based on investment and employment potential
- Provide incentives in the form of capital subsidy up to the tune of 25% of capital investment for the first 50-100 fast charging, battery-swapping stations depending on the type of EV served
- These visionary initiatives proposed in the Karnataka EV Policy are path breaking measures and first by a state in India.

1.2. EV Charging Infrastructure - Guidelines & Standards, MoP, GoI

The "Electric Vehicle Charging Infrastructure - Guidelines & Standards" vide ref No.12/2/2018-EV dated 14-Dec-2018 issued by Ministry of Power, Government of India, deliberated that the cities with more than 4 million population has been

considered to create skeleton charging infrastructure. Bengaluru city is one of the identified cities. It is proposed by MoP to set-up 83 & 64 charging stations in Bengaluru City and 2 major highways connecting Bengaluru respectively.

Also the guidelines recommends the following minimum requirement for a Public EV Charging Station:

1. One charging station will consist of minimum 01 kiosk with the following
   a. 01 x DC Fast Charging point (50kW) with CCS connector (50kW).
   b. 01 x DC Fast Charging point (50kW) with CHAdeMO connector.
   c. 01 x Type-2 AC Charging Points (22kW)
   d. 01 x AC-001 Bharath Charging point (3 x 3.3kW)
   e. 01 x DC-001 Bharath Charging Point (15kW)
2. The service provider shall be at the liberty to install additional kiosks.

2. EV Charging Infrastructure & BESCOM

In support of Govt. of Karnataka's EV Policy BESCOM took the initiative by setting up a EV Charging Station at Corporate Office which has 02 DC Fast Chargers and 01 AC Slow Charger. Further BESCOM has hired 05 Electric Vehicles for corporate use.

A proposal for separate tariff for EV charging station was submitted to Karnataka Electricity regulatory Commission. KERC in its order Dt. 14.05.2018 has introduced a separate tariff for the supply of power to Electric Vehicle Charging Stations under LT and HT supply.

BESCOM has set up 01 no. of AC-001 Bharath EV Charging Station at Office premises of Karnataka Electricity Regulatory Commission (KERC) during October 2017 and 04 nos. of EV Charging Stations at Vidhana Soudha and Vikasa Soudha viz., 01 DC and 02 AC Bharath Chargers each. The Charging Stations were inaugurated by Honourable Chief Minister, Government of Karnataka on 16th November 2018.

In order to create awareness among the public, the Tariff related information must be spread across the popular media such as television and internet. In view of this, actions are taken to create awareness among the public with the help of the following methods

a. Through BESCOM website / web pages.
b. Through BESCOM Mithra mobile application.
c. Through Media Press Release.

In addition, BESCOM with support from Transport Department, GoK kick-started the plan to setup a network of EV charging stations in Bengaluru which is the fundamental step to initiate EV rollout. In this regard, 12 BESCOM owned locations have been identified in Bengaluru City where EV Charging Stations will be set up. Work is expected to be completed by Aug-2019.

BESCOM is identified as "State Nodal Agency" for setting up of "Charging Infrastructure for Electric Vehicles" in Karnataka on 28.12.2019 by Energy Department, Government of Karnataka.

3. EV Charging Infrastructure Workgroup

A High Level Committee (HLC) was formed to prepare a roadmap and action plan for the effective implementation of the Electric Vehicle & Energy Storage policy 2017. The HLC has made several recommendations for various stakeholder government departments. Further, in its recommendations BESCOM is advised to initiate the action of forming Charging Infrastructure group consisting concerned stakeholder govt. departments to jointly map requirement of charging stations and their locations. It is also recommended to come up with roadmap for phase-wise requirement of Charging Stations in Bengaluru with recommendations by 31.12.2018. In view of this, a Charging Infrastructure group was formed under the chairmanship of BESCOM and consisting of the following stakeholder departments:

1. Transport Department, GoK
2. Karnataka Renewable Energy Development Limited (KREDL)
3. Bangalore Metro Rail Corporation Limited (BMRCL)
4. Bengaluru Metropolitan Transport Corporation (BMTC)
5. Bangalore Development Authority (BDA)
6. Karnataka State Road Transport Corporation (KSRTC)
7. Bruhat Bengaluru Mahanagara Palike (BBMP).
8. Karnataka Housing Board (KHB)
9. Karnataka Industrial Area Development Board (KIADB)
10. Karnataka Power Transmission Corporation Limited (KPTCL)
11. All ESCOMs - CESC-Mysuru, HESCOM, MESCOM, GESCOM.

The gist of initiatives taken through the Workgroup are as follows:

i. Proposal for converting 50% of hired vehicles fleet in all the Government Departments to Electric Vehicles in Bengaluru City.
ii. Proposal to the Urban Development Department for making required provisions in the building bye laws for providing dedicated mandatory parking space and charging points in high-raise buildings / City Master plans.
iii. BBMP to work on the amendments in their bye-laws favouring e-Mobility following due procedure.
iv. Identification of locations which are under the ownership of various departments (govt.) across Bengaluru city for setting up 100 EV Charging

Stations (AC-001). BESCOM has already awarded the work and is expected to be completed by Aug-2019.

v. Financial support from the Transport Department, Government of Karnataka in setting up the EV Charging Stations in Bengaluru.

vi. Necessary clearances to BESCOM for setting up EV Charging Stations at the confirmed and identified locations by the workgroup.

vii. Maintaining of EV & EVSE statistics at BESCOM – statistics of no. of EVs in the Bangalore and EV Charging Stations in the Bangalore.

viii. Formation of Technical Sub-Committee for arriving at the requirements of EV Charging Stations Management, Billing & Payments software solution.

ix. Formation of branding committee for finalising the logo for EV Charging Stations and spreading awareness among public.

x. Discussion on adoption of "Electric Vehicle Charging Infrastructure – Guidelines and Standards", the policy issued by Ministry of Power, Government of India.

xi. Setting up EV Charging Station in all highways/major roads connecting Bengaluru to other major cities.

xii. Setting up EV Charging Stations by BMRCL at all the metro stations in the city.

xiii. Preparation of "Cost to Serve" the public duly considering the investments and subsidy.

4. Proposal for FAME II

The guidelines of the policy issued by Ministry of Power, Government of India deliberates setting up of 01 public EV charging station in every geographical grid of 3km x 3km in city. However, the space availability in Bengaluru city is a major issue to be addressed to comply with this recommendation. Subsequent sections details the implementation mechanism of the EV Charging Infrastructure for Karnataka.

4.1. Outdoor & Indoor Type Charging Stations

The public charging stations can be both indoor and outdoor type. The indoor type of charging stations can be set up at the indoor parking lots maintained by the stakeholder departments. These stations can be full-fledged stations depending on the space availability having all types of DC & AC Chargers as described in the MoP Guidelines.

The outdoor charging stations can be set up where there is ample space for movement of Vehicles (4 wheelers), public amenities, parking of minimum 7 nos of 4 wheelers simultaneously being charged. In such cases, the charging stations has to be set up in a way where the regular activities of the stakeholder departments are not hampered.

Implementation Mechanism

To begin with, installation of EV Charging stations can be taken up in a phased manner. In highways and major road connecting Bengaluru and other cities, EV Charging Stations shall be set up for every 25 to 30 km on either side of the roads. This shall be taken up in parallel to the implementation in the cities.

In accordance with the MoP, GoI guidelines the public charging station shall have 05 types of EV Chargers. In addition, the public charging stations shall have

i. Dedicated distribution transformer for catering the load requirement.

ii. Public Amenities – toilets, restroom etc.

Implementation Phase 1

MoP, GoI prioritises the roll out of Public EV Charging Stations in all the Mega Cities in India having population of more than 4 million and all existing expressways/highways connecting to these mega cities. Bengaluru is one of the identifies cities with proposal for 83 Public Charging Stations within the city and 24 Public Charging Stations in Bengaluru-Mysuru & Bengaluru-Chennai highways.

BESCOM as a state nodal agency has to select the implementation agency for setting up the Public Charging Stations in accordance to the MoP Guidelines. Bengaluru city and connected major state/national highways shall be covered in this phase.

For setting up DC Charging Stations, space constraint has to be dealt with and in accordance with the MoP, GoI guidelines, 138 Public Charging Stations can be set up in Bengaluru City and other two cities viz., Mysuru and Hubballi with one million plus population.

The estimated investment required:

Sl. No.	**Particulars**	**Unit**	**Public Charging Stn**
1	EV Supply Equipment	Rs.	26,00,000
2	Electrical Infrastructure	Rs.	14,00,000
3	Civil Infrastructure	Rs.	11,00,000
	Total	**Rs.**	**51,00,000**
4	No. of EV Charging Stations	Nos	138
	Grand Total	**Rs.**	**Rs. 70,38,00,000**

Timeline for implementation: **by FY 2020**

Implementation Phase 2

All the major cities including district headquarters shall be covered for establishing a distributed EV Charging infrastructure network. The government stakeholder departments shall come forward in providing space for EV charging stations.

On an average, if each district headquarter accommodates 15 Public EV Charging Stations, total charging stations in Karnataka would be.

No. of Districts: 26

Public Charging Stations =26 x 15 = 390 nos

Total Charging Stations in the state (excluding cities with more than one million population):

Sl. No.	Particulars	Unit	Public Charging Stn
1	EV Supply Equipment	Rs.	26,00,000
2	Electrical Infrastructure	Rs.	14,00,000
3	Civil Infrastructure	Rs.	11,00,000
	Total	**Rs.**	**51,00,000**
4	No. of EV Charging Stations	Nos	390
	Grand Total	Rs.	Rs. 198,90,00,000

Timeline for implementation: **FY 2021**

Implementation Phase 3

Further all the major roads/highways connecting the cities shall be covered in this phase. The PCS shall be set up for every 25-30km along the roads. The state government shall provide necessary support for setting up the charging infrastructure through the stakeholder departments.

Considering an average of 05 Public DC Charging Stations required for the roads connecting each headquarter, the total number of charging stations shall be:

No. of district headquarters: 28

No. of PCS per headquarter: 05

Total PCS in the state (excluding Bengaluru city & rural): 28 x 5 = 140 (say 150)

The estimated investment required:

Sl. No.	Particulars	Unit	Public Charging Stn
1	EV Supply Equipment	Rs.	26,00,000
2	Electrical Infrastructure	Rs.	14,00,000
3	Civil Infrastructure	Rs.	11,00,000
	Total	**Rs.**	**51,00,000**
4	No. of EV Charging Stations	Nos	150
	Grand Total	**Rs.**	**Rs. 76,50,00,000**

Timeline for implementation: **FY 2022**

Estimated Investment Required

The summary of the investment required for setting up the EV Charging infrastructure in Bengaluru and across the state is as follows:

Sl. No.	Particulars	No. of Charging Stations	Investment (Rs. in Crore)
1	Phase 1	138	70.38
2	Phase 2	390	198.90
3	Phase 3	150	76.50
	Total	**678**	**345.78**

****** END OF REPORT ******